D-Link®

Product Specification

DWL-650

PCMCIA Wireless

Create a Network and Share Internet Access without Wires

The D-Link DWL-650 is an IEEE 802.11b compliant PC Card Type-II 11Mbps wireless LAN adapter. The DWL-650 will operate in 2.4 GHz Direct Sequence Spread Spectrum (DSSS) for wireless networks in the home or office environment. It is designed to operate in 3.3V or 5.0V DC slots. In addition, the DWL-650 uses a 64/128-bit WEP (Wired Equivalent Privacy) Encryption for a secure network connection.

The D-Link DWL-650 can operate in either Ad-Hoc mode (Peer-to-Peer networking without access point) or Infrastructure mode (Peer-to-Peer networking using an access point). In Infrastructure mode, the DWL-650 can be connected to a broadband residential gateway or a DSL/Cable modem for high-speed wireless Internet access on the existing network.

The DWL-650 can transmit data at 11, 5.5, 2 or 1 Mbps per channel. The DWL-650 transmit rate values can be manually selected for Auto Select 1 or 2 Mbps, Fixed 1 Mbps, Fixed 11 Mbps, Fixed 2 Mbps, Fixed 5.5 Mbps and Fully Auto. The DWL-650 has full mobility and seamless roaming from cell to cell as well as across access points. The range of coverage per cell for indoor use is up to 328 feet and up to 984 feet per cell for outdoor use.

The DWL-650 comes with an internal non-detachable diversity patch antenna and one built-in green LED indicator for power, network link and activity. The DWL-650 is compatible with Windows 98, ME, 2000, XP.

The D-Link DWL-650 PCMCIA Wireless Adapter allows you to create or join a network and share Internet access without wires

The DWL-650 can be connected to a broadband residential gateway or a DSL/Cable modem for high-speed wireless Internet access on the existing network.

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Technical Specifications	
Standards	• IEEE 802.11b • WiFi Certified
Adapter Type	PC Card Type-II slot
Protocols	• TCP/IP • IPX/SPX • NetBEUI • NDIS3 • NDIS4 • DHCP
System Requirements	IBM compatible notebook with Cardbus Controller
Supported OS	• Windows 98 • Windows ME • Windows 2000 • Windows XP
Data Security	64/128-bit WEP (Wired Equivalent Privacy) Encryption
Data Rate	• Mbps/channel • 11 : CCK • 5.5 : CCK • 2 : DQPSK • 1 : DBSK
Key Management	Automatic Dynamic Key Allocation (ADKA) through public key
Range	• Indoor - per cell approximately 114 to 328 feet • Outdoor - per cell approximately 328 to 984 feet
Diagnostic LED	• Power • Network Link • Activity
Power Specifications	Operating Voltage: 3.3V, 5V
Power Consumption	• TX consumption: <350mA • RX consumption: <250mA • Sleep Mode power consumption: 17mA
Transmit Power	• Nominal Temp. Range: 17 dBm • Extended Temp. Range: 14 dBm min. • Transmit Power, 2.7v to 3v: 14 dBm min.

Receive Sensitivity	• **Nominal Temp Range:**
	  ○ 1 Mbps 10-5 BER @ -90 dBm, minimum
	  ○ 5.5 Mbps 10-5 BER @ -87 dBm, minimum
	  ○ 11 Mbps 10-5 BER @ -84 dBm, minimum
	• **Extended Temp Range:**
	  ○ 1 Mbps 10-5 BER @ -84 dBm, minimum
	  ○ 5.5 Mbps 10-5 BER @ -81 dBm, minimum
	  ○ 11 Mbps 10-5 BER @ - 78 dBm, minimum

Network Architecture	• Supports Ad-Hoc Mode (Peer-to-Peer without Access Point) or Infrastructure Mode (Communications to wired networks via Access Points with Roaming) • Compliant with IEEE 802.11b Standards
Antenna	• Internal patch antenna supporting diversity • Mobility: Seamless roaming across cell boundaries within access point range
Frequency Range	2.4 - 2.4835 GHz, Direct Sequence Spread Spectrum (DSSS)
Operating Channels	• 1-11 United States (FCC) • 1-11 Canada (DOC) • 1-14 Japan (MKK) • 1-13 Europe (Except Spain and France) (ETSI)
Physical Dimensions	• L = 110 mm • W = 54 mm • H = 6 mm
Temperature	• Operating Temperature: -10°C to 55°C • Storage Temperature: -20°C to 75°C
Humidity	Maximum up to 95% Non-condensing
Emissions	• FCC • CE
Safety	UL